

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address O MMISSIONER FOR PATENTS PO Pox 1450 Alexandra, Vigona 22313-1450 www.uspro.gev

DATE MAILED: 08/12/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/944,478	08/31/2001	Tyler A. Lowrey	INTO-0006-US (P12499)	1547
75	590 08 12 2003			
Timothy N. Trop TROP, PRRUNER & HU, P.C. STE 100			EXAMINER	
			QUACH, TUAN N	
8554 KATY FWY HOUSTON, TX 77024-1805			ART UNIT	PAPER NUMBER
			2814	

Please find below and/or attached an Office communication concerning this application or proceeding.

		MC				
	Application No.	Applicant(s)				
	09/944,478	LOWREY, TYLER A.				
Office Action Summary	Examiner	Art Unit				
	Tuan Quach	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>02</u> .	<u>June 2003</u> .					
2a)⊡ This action is FINAL . 2b)⊡ Th	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10 and 31-40</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-5</u> is/are allowed.						
6)⊠ Claim(s) <u>6-10,31-37 and 40</u> is/are rejected.						
7)∑ Claim(s) <u>38, 39</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domest	• •					
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				

Art Unit: 2814

DETAILED ACTION

Claims 6-10, 31-36, 40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 is unclear and inconsistent with claim 1 as it refers to "an insulator" giving rise to the implication that a different insulator is being referred to; this insulator already was in base claim 1, fifth step. A change in claim 6 is required to refer back to the insulator recited in claim 1.

In claim 31, line 8, "said insulator" lacks antecedent basis and is inconsistent with the "insulating material" recited at line 7. A change in claim 31 is required to refer back to said insulating material.

In claim 32, "an insulator" is inconsistent and does not clearly point out the invention; this insulator corresponds to the insulating material in claim 31; a change of "an insulator" to "said insulating material" in this claim would be acceptable.

In claim 40, "said insulating layer" lacks antecedent basis and inconsistent; the layer recited in claim 37 simply recite "covering said semiconductor structure with a layer" but fails to recite an insulating layer (see, e.g., claim 31 line 3 which recites an insulating layer).

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ovshinky of record. Ovshinkky is applied as in Paper No. 9, last paragraph. The Application/Control Number: 09/944,478

Art Unit: 2814

claimed invention regarding the first cup shaped connection and the second cup shaped connection would been apparent or otherwise obvious over the layers 32 and 34, respectively, as these correspond to contact layers thus would be the first and second cup shaped connections. The cup shape would have been met or otherwise obvious as shown in Fig. 1 with regard to the shape provided from layers 32 and 34.

Claims 38-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The filling the first cup-shaped electrical connection with an insulator in the context of claim 37 is not shown in the prior art.

Claims 1-5 are allowed. Claims 31 and 32, hence dependent claims 33-36 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Applicant's arguments with respect to claims 6-10, 31-37 and 40 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Quach whose telephone number is 703-308-1096. The examiner can normally be reached on M - F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Wael Fahmy can be reached on (703) 308-4918. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9318 (Before Final) and (703) 872-9319 (After Final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

7/